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AN

PATENT SPECIFICATION

1,178,396

DRAWINGS ATTACHED.

Inventor:—JACK HALSEY-WATSON.

1,178,396



Date of filing Complete Specification: 18 July, 1967.

Date of Application (No. 33176/66): 22 July, 1966.

Complete Specification Published: 21 Jan., 1970.

Index at acceptance:—F2 H(15, 18).

International Classification:—F 16 b 41/00.

COMPLETE SPECIFICATION.

Improvements in or relating to Screws.

We, HILLS (PATENTS) LIMITED, a British Company, of Hills House, London Road, Staines, Middlesex, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to screws and in particular to covers for screws, i.e. capped screws having the screw heads covered by a decorative or protective cover after having been screwed home.

According to this invention there is provided a cover for a screw head comprising a base member having a central aperture through which the screw shank can pass and a cap resiliently engaging the base member wherein the base member has an upstanding peripheral rim having a groove facing inwardly towards the axis of said aperture and the cap has a depending skirt means having beading thereon, which beading resiliently engages in the groove in the rim.

The base member and cap are preferably so shaped that their outer surfaces together form a smoothly continuous dome-like surface. The skirt means is preferably in the form of a cylindrical skirt having a continuous beading on the lower end of its outer surface near or adjacent the free edge of the skirt, but the skirt means may be discontinuous so as to provide resilient legs.

The invention also provides a capped screw comprising the combination of a screw with a cover as set forth above in which the rim is annular in section, wherein the screw shank extends through the apertured base member, wherein the diameter of the screw head is less than the internal diameter of the rim and wherein the skirt

means projects into the annular space between the rim and the head of the screw.

An embodiment of the invention will now be described, by way of example, with reference to the accompanying drawings. This drawing shows in section a capped screw of the invention used to attach a number plate to the body of a vehicle.

Referring now to the drawing, a capped screw of the invention comprises a metal screw 11 and a plastics cover 12. The cover 12 comprises a base 14 and a cap 15. The base 14 has a central aperture 16, through which the shank of the screw 11 freely passes surrounded by a flat section 17, upon which the head 18 of the screw rests, and which is itself surrounded by an upstanding peripheral rim 19 that is spaced from the screw head 18. The rim 19 has a radially inwardly-facing groove 21 on its inner surface.

The cap 15 has an inwardly stepped shoulder 22, which rests upon the upper surface 23 of the rim 19 and a depending cylindrical skirt 24. Outwardly directed peripheral beading 25 is provided on the skirt 24. This beading 25 snaps into the groove 21. The outer surfaces 26 and 27 of the cap 15 and base 14 are such as to form a smoothly continuous dome.

The capped screw of the invention may be used with advantage to secure a vehicle number plate (shown diagrammatically at 28) on to a part 29 of a vehicle body. For this purpose the screw may be a self-tapping screw and a distance piece 31 may be provided between the number plate 28 and the vehicle body part.

The capped screw may be used in any other circumstances where exposed screw heads should be covered. Typical of the large number of such uses are in fitting signs

[Pr.]

to walls and mirrors on to bathroom walls. The cap 15 and base 14 may be made in any desired colours.

WHAT WE CLAIM IS:—

- 5 1. A cover for a screw head comprising a base member having a central aperture through which the screw shank can pass and a cap resiliently engaging the base member wherein the base member has an upstanding
10 peripheral rim having a groove facing inwardly towards the axis of said aperture and the cap has a depending skirt means having beading thereon, which beading resiliently engages in the groove in the rim.
15 2. A cover as claimed in Claim 1 wherein the base member and cap are so shaped that their outer surfaces together form a smoothly continuous dome-like surface.
20 3. A cover as claimed in Claim 1 or Claim 2 wherein the skirt means is in the form of a cylindrical skirt having a continuous beading on the lower end of its radially outer surface in the region of the free edge of the skirt.

4. A cover as claimed in Claim 1 or 25 Claim 2 wherein the skirt means comprises a plurality of resilient legs.

5. A capped screw comprising the combination of a screw with a cover as claimed in any one of the preceding claims in which 30 the rim is annular in section, wherein the screw shank extends through the apertured base member, wherein the diameter of the screw head is less than the internal diameter of the rim and wherein the skirt means 35 projects into the annular space between the rim and the head of the screw.

6. A cover for a screw substantially as hereinbefore described with reference to the accompanying drawing. 40

7. A capped screw substantially as hereinbefore described with reference to the accompanying drawing.

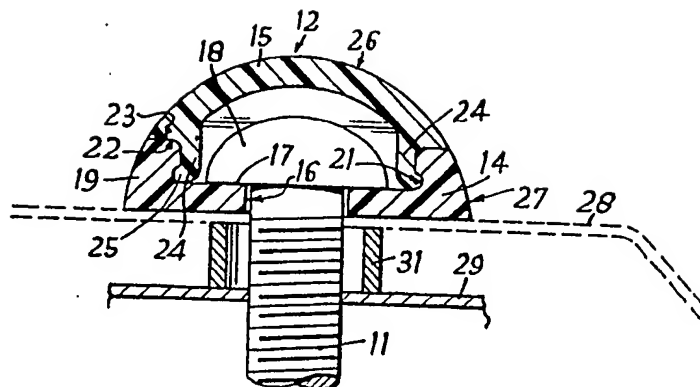
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Agents for the Applicants.

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the Original on a reduced scale*



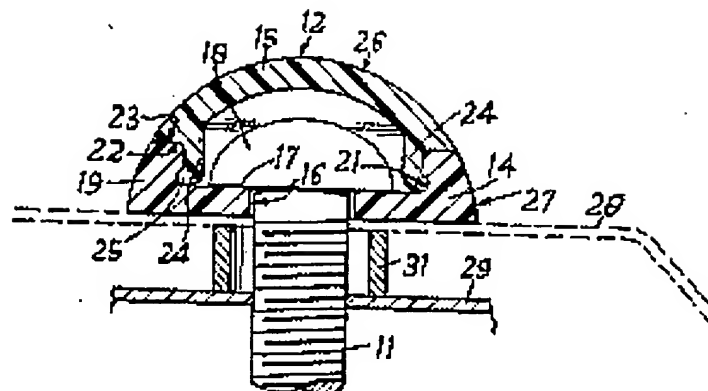
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